

Active Recombinant Human JAK1 protein, His-tagged

Cat. No. JAK1-265H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human JAK1 protein(596-841 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	596-841 aa
Form	Lyophilized from PBS, pH7.4, containing 0.01% SKL, 5%Trehalose.
Bio-activity	Janus Kinase 1, also known as JAK1, is a member of the Janus kinase family, which plays a crucial role in various cellular processes, including signal transduction, immune response, and hematopoiesis. It is reported that the binding of JAK1 to IFNa2 plays an important role in immune response and antiviral defense. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human JAK1 and recombinant mouse IFNa2. Briefly, JAK1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IFNa2-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-JAK1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant

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human JAK1 and recombinant mouse IFNa2 was shown in Figure, the EC50 for this effect is 0.1 ug/mL.

Molecular Mass	31.9kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	JAK1 Janus kinase 1 [Homo sapiens]
Official Symbol	JAK1
Synonyms	JAK1; Janus kinase 1; JAK1B; tyrosine-protein kinase JAK1; JAK1A; JTK3;
Gene ID	3716
mRNA Refseq	NM_002227
Protein Refseq	NP_002218
MIM	147795

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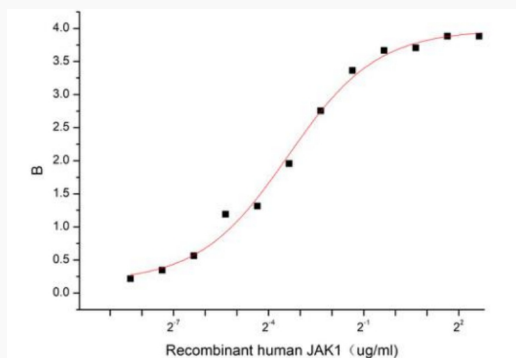
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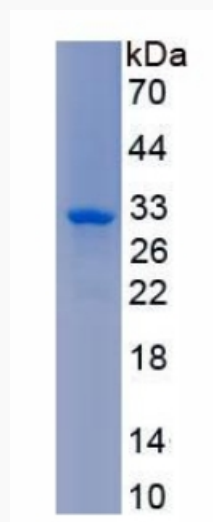
UniProt ID

P23458

Activity



SDS-PAGE



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